#### IN THE CLAIMS

Please amend claim 15 as follows:

1. (Previously Presented) A communication method in a wireless in-building communication system connected to a public land mobile network including a mobile switching center and a base station controller, said method comprising the steps of:

forming a common cell area in which a wireless public communication service and a wireless in-building communication service are available through a private base station; requesting a communication service at a mobile terminal in the common cell area; determining, in response to the requesting of the communication service, whether the mobile terminal is registered for the wireless in-building communication service; providing the wireless in-building communication service to a registered mobile terminal; and bypassing the communication service request of an unregistered mobile terminal to the public land mobile network.

# Claims 2-4. (Canceled)

5. (Previously Presented) The method of claim 1, wherein the communication service includes voice and data services.

## Claims 6-9. (Canceled)

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- 10. (Previously Presented) The method of claim 1, wherein signals from the registered mobile terminal are outputted to at least one antenna mounted in said common cell area, and said at least one antenna is coupled to the wireless in-building communication system.
- 11. (Previously Presented) The method of claim 1, wherein the registered mobile terminal communicates with one of a wire extension terminal and a wireless extension terminal, and the registered mobile terminal wirelessly performs a data service through an Internet protocol network.

### Claims 12-14. (Canceled)

- 15. (Currently Amended) A unified in-building communication apparatus connected to a public land mobile network, said apparatus comprising:
- a private base station for forming a common cell area in which a public land mobile network service and an in-building wireless network service are available;
- a call manager responsive to a communication <u>service</u> request from a mobile terminal in the common cell area for determining whether [[an]] <u>the mobile terminal is registered for the in-building wireless network service of the mobile terminal is</u>

registered, and <u>for</u> controlling provision of a corresponding service according to a result of the determination; and

a public/private communication service unit responsive to control by said control call manager for providing the in-building wireless network service to a registered mobile terminal, and for controlling an bypassing the communication service request of an unregistered mobile terminal for connection to the public land mobile network.

### Claims 16-27. (Canceled)

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- 28. (Previously Presented) The method of claim 1, wherein the wireless inbuilding communication service provided to the registered mobile terminal includes a communication service between the registered mobile terminal and a wire extension terminal.
- 29. (Previously Presented) The method of claim 1, wherein the wireless inbuilding communication service provided to the registered mobile terminal includes a communication service between the registered mobile terminal and a wireless extension terminal.
- 30. (Previously Presented) The method of claim 1, wherein the wireless inbuilding communication system is connected to an Internet protocol network through a

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31. (Previously Presented) The method of claim 30, wherein the wireless in-
building communication service provided to the registered mobile terminal includes a
data communication service between the registered mobile terminal and an Internet
protocol network.

- 32. (Previously Presented) The apparatus of claim 15, wherein the public/private communication service unit comprises:
- an Internet protocol-private branch exchange for performing switching for establishing communication between a mobile terminal in the common cell area and a wire extension terminal, and for providing a path between a wireless extension terminal and one of a public switched telephone network and an integrated service digital network; and
- a private base station controller for allocating a vocoder in response to a call request of the mobile terminal in the common cell area, and for providing a communication path to the mobile terminal in the common cell area.
  - 33. (Previously Presented) The apparatus of claim 32, further comprising:
- a router for providing access between the unified in-building communication apparatus and an Internet protocol network; and

a local area network switch connected to the unified in-building communication apparatus through the router for switching data of the unified in-building communication apparatus, and for connecting the unified in-building communication apparatus to the Internet protocol network through a local area network.

- 34. (Previously Presented) The apparatus of claim 33, further comprising a transcoder and selector bank interface for providing an interface between the local area network switch and the private base station controller.
- 35. (Previously Presented) The apparatus of claim 34, wherein the private base station controller is connected to a private base station and to the public land mobile network through respective communication lines, and includes a local interface assembly for providing an interface therebetween.
- 36. (Previously Presented) The apparatus of claim 35, wherein the local interface assembly generates and outputs inter-process communication data from communication data which is received from the private base station and the public land mobile network, and outputs communication data from inter-process communication data which is transmitted to the private base station and the public land mobile network.
  - 37. (Previously Presented) The apparatus of claim 36, further comprising a high

- 2 capacity inter-process communication node board assembly connected to the local
- interface assembly, the transcoder and selector bank interface, and the call manger,
- 4 respectively, for performing inter-process communication data processing between the
- local interface assembly, the transcoder and selector bank interface, and the call manager.